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PTO/SB/08A (10-01)

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

1 of 2

Complete if Known

Application Number	10/070,012	#7
Filing Date	July 29, 2002	
First Named Inventor	Tajinder Manku	
Art Unit	2681	
Examiner Name	Unassigned	
Attorney Docket Number	085908-000000US	

Sheet 1 of 2

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					Examiner Initials
YJ	1	US-6,014,408	01-11-2000	Naruse et al.	RECEIVED
YJ	2	US-5,838,717	11-17-1998	Ishii et al.	
YJ	3	US-5,390,346	02-14-1995	Marz	
YJ	4	US-4,110,834	08-29-1978	Altwein	
					DEC 11 2002
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### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
YJ	5	EP	977351 A	02-02-2000			<input type="checkbox"/>
YJ	6	EP	902549 A	03-17-1999			<input type="checkbox"/>
YJ	7	EP	837565 A	04-22-1998			<input type="checkbox"/>
YJ	8	WO	96/01006 A	01-11-1996			<input type="checkbox"/>
YJ	9	GB	2331207 A	05-15-1999			<input type="checkbox"/>

Examiner Signature		Date Considered	2/3/04
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

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Application Number	10/070,012
Filing Date	July 29, 2002
First Named Inventor	Tajinder Manku
Art Unit	2681
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Attorney Docket Number	085908-000000US

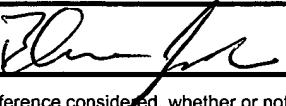
### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
BR	10	AUE et al. "Multicarrier spread spectrum modulation with reduced dynamic range," IEEE Vehicular Technology Conference Atlanta, vol. 2, pp. 914-917 (1996).	

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Sheet 1 of 4

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Application Number	10/070,012
Filing Date	February 28, 2002
First Named Inventor	Tajinder Manku
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085908-000000US

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		Number	Kind Code <sup>2</sup> (if known)		
B1	1.	6,324,388	B1	Souetinov	11-27-2001
	2.	6,308,058	B1	Souetinov et al.	10-23-2001
	3.	2001/0014596	A1	Takaki et al.	08-16-2001
	4.	6,243,569	B1	Atkinson	06-05-2001
	5.	6,194,947		Lee et al.	02-27-2001
	6.	6,167,247		Kannel et al.	12-26-2000
	7.	6,148,184		Manku et al.	11-14-2000
	8.	6,125,272		Bautista	09-26-2000
	9.	6,091,940		Sorrels et al.	07-18-2000
	10.	6,073,000		Shinohara	06-06-2000
	11.	6,061,551		Sorrells et al.	05-09-2000
B2	12.	6,049,706		Cook et al.	04-11-2000
	13.	6,029,058		Namgoog et al.	02-22-2000
	14.	6,002,923		Sahlman	12-14-1999
	15.	5,953,643		Speake et al.	09-14-1999
	16.	5,949,830		Nakanishi	09-07-1999
	17.	5,918,169		Dent	06-29-1999
	18.	5,918,167		Tiller et al.	06-29-1999
	19.	5,715,530		Eul	02-03-1998
	20.	5,530,929		Lindqvist et al.	06-25-1996
	21.	5,467,294		Hu et al.	11-14-1995
	22.	5,451,899		Lawton	09-19-1995
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	25.	5,390,346		Marz	02-14-1995
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	27.	5,303,417		Laws	04-12-1994
	28.	5,228,042		Gauthier et al.	07-13-1993
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	30.	5,179,728		Sowadski	01-12-1993
	31.	5,128,623		Gilmore	07-07-1992
	32.	4,955,039		Rother et al.	09-04-1990
B2	33.	4,811,425		Feerst	03-07-1989

Examiner Signature	<i>Blair John</i>	Date Considered	8/21/04
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet

2 of 4

### Complete if Known

Application Number	10/070,012
Filing Date	February 28, 2002
First Named Inventor	Tajinder Manku
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085908-000000US

U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
21	34.	4,736,390		Ward et al.	04-05-1988
	35.	4,726,042		Vance	02-16-1988
	36.	4,677,690		Reed	06-30-1987
	37.	4,618,967		Vance et al.	10-21-1986
	38.	4,599,743		Reed	07-08-1986
	39.	4,583,239		Vance	04-15-1986
	40.	4,571,738		Vance	02-18-1986
	41.	4,525,835		Vance et al.	06-25-1985
	42.	4,523,324		Marshall	06-11-1985
	43.	4,521,892		Vance et al.	06-04-1985
	44.	4,506,262		Vance et al.	03-19-1985
	45.	4,488,064		Vance	12-11-1984
	46.	4,480,327		Vance	10-30-1984
	47.	4,476,585		Reed	10-09-1984
	48.	4,470,147		Goatcher	09-04-1984
	49.	4,462,107		Vance	07-24-1984
	50.	4,322,851		Vance	03-30-1982
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	52	4,254,503		Vance	03-03-1981
	53	4,238,850		Vance	12-09-1980
101	54	4,193,034		Vance	03-11-1980

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FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)		
21	55	CA	2,273,671		Sreenath et al.	03-05-2002
	56	CA	2,300,045	A1	Mitel	09-03-2001
	57	CA	2,331,228	A1	Schultz et al.	07-18-2001
	58	CA	2,339,744	A1	Mitel	03-02-2001
	59	CA	2,281,236	A1	Mitel	03-01-2001
	60	CA	2,272,877		Madni et al.	11-27-1999
101	61	CA	2,270,337		Redfern et al.	10-29-1999

Examiner Signature

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Date Considered

5/2/04

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 4

### Complete if Known

Application Number	10/070,012
Filing Date	February 28, 2002
First Named Inventor	Tajinder Manku
Group Art Unit	2681
Examiner Name	Unassigned
Attorney Docket Number	085908-000000US

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
131	62	CA	2,316,969	A1	Kaufman et al.	07-15-1999		
	63	CA	2,224,953		Manku	06-16-1999		
	64	CA	2,305,134	A1	Schier et al.	04-15-1999		
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	67	CA	1,290,403		Rother et al.	10-08-1991		
	68	CA	1,226,627		Kasperkovitz	09-08-1987		
	69	EP	1085652	A2	Cowley	03-21-2001		
	70	EP	1067689	A2	Thorpe et al.	01-10-2001		
	71	EP	0993125	A2	Ma et al.	04-12-2000		
	72	EP	1085665	A2	Mitel	03-21-1999		
	73	EP	0899868	A1	Mitel, Corp.	03-03-1999		
	74	EP	0782249	A1	Glas et al.	07-02-1997		
	75	EP	0721270	A1	Lawton	07-10-1996		
	76	EP	0634855	A1	Lawton	01-18-1995		
	77	GB	2329085	A	GEC-Marconi	03-10-1999		
	78	PCT	WO 00/69085	A1	Morphics Tech.	11-16-2000		
	79	PCT	WO 00/05815	A1	Global Comm.	02-03-2000		
	80	PCT	WO 99/55015	A1	Ericsson, Inc.	10-28-1999		
	81	PCT	WO 99/55000	A2	Silicon Image	10-28-1999		
	82	PCT	WO 97/50202	A2	Cummings	12-31-1997		
	83	PCT	WO 96/01006	A1	Honeywell, Inc.	01-11-1996		

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Application Number 10/070,012  
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Group Art Unit 2681  
Examiner Name Unassigned

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Attorney Docket Number 085908-000000US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>ef</i>	84	ABIDI "Direct-Conversion Radio Transceivers for Digital Communications," IEEE J. of Solid-State Circuits, 30:1399-1410 (1995).	
	85	ANVARI et al. "PERFORMANCE OF A DIRECT CONVERSION RECEIVER WITH $\pi/4$ -DPSK MODULATED SIGNAL," IEEE publication CH2944-7/91/0000/0822, pp. 822-827 (1991).	
	86	CHO et al. "A Single Chip CMOS Direct-Conversion Transceiver For 900MHz Spread-Spectrum Digital Cordless Phones," IEEE 1999 International Solid-State Circuits Conference paper TP13.5 (1999).	
	87	ENZ "Design of Low-Power and Low-Voltage Analog and RF Integrated Circuits in Ultra Deep Submicron CMOS Technologies," available from the Electronics Laboratory of EPFL (Lausanne) website <a href="http://legwww.epfl.ch">http://legwww.epfl.ch</a> (2001).	
	88	GCT Semiconductor, Inc. "GCT's Direct Conversion Technology," product information available from <a href="http://www.gct21.com">http://www.gct21.com</a> (2002).	
	89	HEINEN et al. "A 2.7V 2.5GHz Bipolar Chipset for Digital Wireless Communication," IEEE 1997 International Solid-State Circuits Conference, paper SA 18.4 (1997).	
	90	MARSHALL et al. A 2.7GHz GSM Transceiver ICs with On-Chip Filtering," IEEE 1995 International Solid-State Circuits Conference, paper TA 8.7 (1995).	
	91	MCDONALD "A 2.5GHz BiCMOS Image-Reject Front-End," 1993 International Solid-State Circuits Conference, paper TP 9.4 (1993).	
	92	RAZAVI "Design Considerations for Direct-Conversion Receivers," IEEE Transactions on Circuits and Systems - II: Analog and Digital Signal Processing 44:428-435 (1997).	
	93	RUDELL et al. "A 1.9GHz Wide-Band IF Double Conversion CMOS Integrated Receiver for Cordless Telephone Applications," IEEE 1997 International Solid-State Circuits Conference, paper SA 18.3 (1997).	
	94	SANDULEANU et al. "Chopping: a technique for noise and offset reduction," <u>Power, Accuracy and Noise Aspects in CMOS Mixed-Signal Design</u> , chapter 5, sections 5.2 and 5.4, EDA Books Online <a href="http://www.dacafe.com">http://www.dacafe.com</a> (1999).	
	95	SANDULEANU et al. "LOW-POWER LOW-VOLTAGE CHOPPED TRANSCONDUCTANCE AMPLIFIER FOR NOISE AND OFFSET REDUCTION," conference paper, 23rd European Solid-State Circuits Conference Southampton, UK, 16 - 18 September 1997.	
	96	SEVENHANS et al. "An integrated Si bipolar RF transceiver for zero if 900 MHz GSM digital mobile radio frontend of a hand portable phone," Proceedings of the Custom ICConference, San Diego 1991; IEEE publication 0-7803-0768-2, pp561-564 (1992).	
<i>By</i>	97	STETZLER et al. "A 2.7V to 4.5 V Single-Chip GSM Transceiver RF Integrated Circuit," 1995 International Solid-State Circuits Conference, paper TA 8.8 (1995).	

Examiner Signature

*Blawie*

Date Considered

05/02/01

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